

TFK programme, funded projects 2025

Project title: Sustainable educational solutions for chemical ecology and atmospheric pollution	
Coordinator University of Eastern Finland (UEF) Oksana Skaldina, oksana.skaldina@uef.fi	The project “Sustainable educational solutions for chemical ecology and atmospheric pollution (SESCAP)” aims to promote science-based education in an intercultural space between Finland and China. Understanding the chemically mediated interactions between organisms and the environment provides a strong background for the green transition. Understanding the consequences and mitigation strategies of air pollution advances the field of circular economy. Novel sustainable teaching solutions in these areas, developed through the Sino-Finnish partnership, will create a generation of experts with high intercultural competence. To achieve this goal, SESCOAP will carry out multi-educational activities, mobilities, and networking. The partners are the University of Eastern Finland (UEF), the University of Turku (UTU) and the Nanjing University of Information Science and Technology (NUIST). SESCOAP project will benefit from the world-leading research and educational experiences of the Finnish research groups such as the Environmental Ecology Research Group (EERG), the Fine Particle Laboratory (FINE), the Aerosol Physics Research Group (APRG) (all UEF), the Natural Chemistry Research Group and the Populations in Temporally Varying Environments Research Group from UTU and those of the School of Ecology and Applied Meteorology at NUIST.
Partners University of Turku (UTU), The Nanjing University of Information Science and Technology (NUIST)	SESCAP includes the following activities as described below. Creation of a novel interdisciplinary course “Core of Chemical Ecology and Atmospheric Pollution” (CAP-core) based on digital panoramas (wide format photography and augmented reality). The course will be developed in English, Finnish, and Chinese and will be integrated into the curricula of the participating universities, including ECTS credit recognition. It will be further integrated with the live course (CAP-live). A virtual space (designed and hosted website) and designed booklet CAP-met will be created as a basis for modern research and teaching methods. Conducting a recorded series of 10 webinars CAP-web (iv) will be led by expert team members of SESCOAP. Conducting long-term mobilities CAP-move (v) (2 months) for a total of four incoming/outgoing students; short-term mobility periods (10 days) for a total of eight incoming/outgoing students; staff mobility for 8 incoming/outgoing staff members. Networking seminars and pedagogical training for staff (performed by pedagogy experts from UEF and NUIST) CAP-net (vi) will be conducted in both countries.

	Novel educational materials and cross-cultural transfer of scientific knowledge and pedagogical experience are expected to be the outcomes of SESCOAP. These outcomes will be enabled through virtual and live meetings, mobilities, and work life cooperation. SESCOAP will contribute to the development of professional and soft skills such as teamwork, communication, critical thinking, problem solving, adaptability, persuasion, conflict and stress management, decision-making, and time management.
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